



DEPARTMENT OF THE ARMY  
UNITED STATES ARMY RESEARCH LABORATORY  
2800 POWDER MILL ROAD  
ADELPHI, MARYLAND 20783-1197

Declaration and Power of Attorney for: Serial No.: 09/855,549

Docket No.: ARL 00-34

Filing date: 5/16/01

As below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below) of the subject matter, which is claimed and for which a patent is sought on the invention entitled:

**Fabrication of Pure and Modified Ta<sub>2</sub>O<sub>5</sub> Thin Film with Enhanced Properties for Microwave Communication, Dynamic Random Access Memory and Integrated Electronic Applications**

The specification of which is attached hereto;

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims;

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56;

No foreign applications for a patent or inventor's certificate have been filed.

POWER OF ATTORNEY: I hereby certify that the Government of the United States of America, as represented by the Secretary of the Army, has an assignment in the invention set forth in this application, and give irrevocable control of this application for Letters Patent to the Government of the United States, as represented by the Secretary of the Army, and appoint the following attorneys to transact all business in the Patent and Trademark Office connected therewith:

William V. Adams 32,552  
William W. Randolph 28,986

Edward L. Storlarun 25,515

ADDRESS ALL TELEPHONE CALLS TO William V. Adams (703) 617-2301

ADDRESS ALL CORRESPONDENCE TO: U.S. ARMY Materiel Command, ATTN: AMSRL-CCC-B-IP, 5001 Eisenhower Avenue, Alexandria, VA 22333-0001

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME of SOLE or FIRST INVENTOR: Joshi C. Pooran

RESIDENCE: Vancouver WA CITIZENSHIP: USA INDIA

POST OFFICE ADDRESS: 501 SE 123<sup>rd</sup> AVE #F-38, VANCOUVER WA 98683

Date: 7-26-01

SIGNATURE: [Signature]

NOTE - NAME WAS REVERSED  
BY MISTAKE SHOULD BE

POORAN C. JOSHI

See attached

Corrected

Filing

Receipt

William V. Adams  
14 September 2003

Docket No.: ARL 00-34

FULL NAME OF SECOND INVENTOR: Melanie W. Cole  
RESIDENCE: Churchville, MD CITIZENSHIP: USA  
POST OFFICE ADDRESS: 1216 Glenview Ct, Churchville, MD 21028  
Date: 7-26-01  
SIGNATURE: Melanie W. Cole

FULL NAME OF THIRD INVENTOR: Eric Ngo  
RESIDENCE: Bel Camp, MD CITIZENSHIP: USA  
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Date: 7/26/01  
SIGNATURE: [Signature]

FULL NAME OF FOURTH INVENTOR: \_\_\_\_\_  
RESIDENCE: \_\_\_\_\_ CITIZENSHIP: USA  
POST OFFICE ADDRESS: \_\_\_\_\_  
Date: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_

FULL NAME OF FIFTH INVENTOR: \_\_\_\_\_  
RESIDENCE: \_\_\_\_\_ CITIZENSHIP: USA  
POST OFFICE ADDRESS: \_\_\_\_\_  
DATE: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_

FULL NAME OF SIXTH INVENTOR: \_\_\_\_\_  
RESIDENCE: \_\_\_\_\_ CITIZENSHIP: USA  
POST OFFICE ADDRESS: \_\_\_\_\_  
DATE: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/855,549	05/16/2001	1775	840	ARL 00-34	2	16	3

CONFIRMATION NO. 9734

## CORRECTED FILING RECEIPT



\*OC000000007033429\*

U.S. Army Materiel Command  
ATTN: AMCCC-B-IP  
5001 Eisenhower Avenue  
Alexandria, VA 22333-0001

Date Mailed: 11/06/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Pooran C. Joshi, Vancouver, WA;  
Melanie W. Cole, Churchville, MD;  
Eric Ngo, Bel Camp, MD;

## Domestic Priority data as claimed by applicant

THIS APPLN CLAIMS BENEFIT OF 60/205,140 05/18/2000

## Foreign Applications

If Required, Foreign Filing License Granted 07/13/2001

Projected Publication Date: 01/10/2002

Non-Publication Request: No

Early Publication Request: No

## Title

Fabrication of pure and modified Ta<sub>2</sub>O<sub>5</sub> thin film with enhanced properties for microwave communication, dynamic random access memory and integrated electronic applications

## Preliminary Class